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Regularized Penalty Method for General Equilibrium Problems in Banach Spaces

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Abstract

© 2014, Springer Science+Business Media New York. We consider the regularized version of the penalty method for a general equilibrium problem in a Banach space setting. We suggest weak coercivity conditions instead of (generalized) monotonicity and show that they also provide weak and strong convergence properties of the method.

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Keywords

Coercivity conditions, Equilibrium problems, Nonmonotone bi-functions, Regularized penalty method, Strong convergence